

Title : techniques available to support physiological processes in life-threatening states

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- Hypovolemic shock
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- Neurogenic shock
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- Septic shock
- **Systemic inflammatory response syndrome (SIRS)**
- **SIRS** response to wide variety of severe clinical insults, manifested by two or more of the following conditions:
 - * Temperature $> 38^{\circ}\text{C}$ or $< 36^{\circ}\text{C}$
 - * Heart rate > 90 beats/min
 - * Respiratory rate > 20 breaths/min or $\text{PaCO}_2 < 32$ mmHg
 - * WBC count $> 12,000/\text{mm}^3$ or $< 4,000/\text{mm}^3$ or $> 10\%$ immature forms

Sepsis

The systemic inflammatory response to infection

Severe sepsis

Sepsis associated with organ dysfunction, hypoperfusion or hypotension

Septic shock

Defined as sepsis induced hypotension despite adequate fluid resuscitation along with the presence of perfusion abnormalities

Multiple Organ Dysfunction Syndrome

Presence of altered organ functions in an acutely ill patients such that homeostasis cannot be maintained without intervention

3. Monitoring and assessment of respiratory system

Volumetric assessment

- Respiratory rate
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